

* For Examiner's Reference *

Claims:

- 1) A composite system to provide protection against radiation, blast, chemical, biological and/or ballistic attack, comprising:
 - at least one first aluminum panel (21, 31) and means (22, 32) disposed at least in part against said at least one first aluminum panel to provide protection against one or more attack threats.
- 2) A composite system according to Claim 1, wherein said means (22) for providing protection are a plurality of tubes.
- 3) A composite system according to Claim 2, wherein ones of said tubes (22) not disposed against said at least one first aluminum panel (21) are disposed against others of said tubes.
- 4) A composite system according to Claim 3, wherein said tubes (22) are connected to said at least one first aluminum panel (21) and/or to one another via an adhesive, by welding, or by a clamping mechanism.
- 5) A composite system according to Claim 1, where at least one second panel (23, 33) is provided, and wherein said threat protection means (22, 32) are sandwiched between said first and second panels.
- 6) A composite system according to Claim 2, wherein said tubes (22) are hollow aluminum tubes.
- 7) A composite system according to Claim 2, wherein said

tubes²² contain a substance.

8) A composite system according to Claim 7, wherein said substance is selected from the group consisting of air, inert gas, dirt, sand, puffed concrete, tantalum, ballistic fiberglass, Kevlar, nylon, steel, and water.

9) A composite system according to Claim 1, wherein said threat protection means³² comprise at least one ceramic tile disposed on said at least one aluminum panel³¹.

10) A composite system according to Claim 9, wherein said at least one tile³² is comprised of aluminum oxide.

11) A composite system according to Claim 1, wherein at least one layer²⁷ comprised of a material selected from the group consisting of air, inert gas, dirt, sand, puffed concrete, tantalum, ballistic fiberglass, Kevlar, nylon, steel, and water is disposed against at least one of said at least one first aluminum panel^{21, 31}, said threat protection means^{22, 32} and one another.

12) A composite system according to Claim 9, wherein at least one layer comprised of a material select from the group consisting of air, inert gas, dirt, sand, puffed concrete, tantalum, ballistic fiberglass, Kevlar, nylon, steel, and water is disposed between said at least one tile³² and said at least one first aluminum panel³¹.

13) A composite system according to Claim 2, wherein at least one ceramic tile³² is disposed on a side of said at least one first

aluminum panel 21,31 that is disposed opposite said tubes 22.

14) A composite system according to Claim 9, wherein said system is disposed in a sack 42

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15) A composite system according to Claim 14, wherein said sack is made of ballistic nylon or other high strength fabrics.